

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
2004_0216SERIAL NO.
10/780,550LIST OF REFERENCES CITED BY APPLICANT
(Use several sheets if necessary)APPLICANT
Mitsuki OSHIMA

Date Submitted to PTO: July 22, 2004

FILING DATE
February 18, 2004GROUP
2615

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AC						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
PL	AJ	2-154583	6-13-90	Japan			abstract
	AK						
	AL						
	AM						
	AN						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

PL	AO	Shigeki MORIYAMA et al., "Delay Propagation Characteristics at VHF and UHF bands in Urban Area", 1991 Spring National Convention Record, The Institute of Electronics, Information and Communication Engineers, Part 2, p. 406, March 15, 1991
PL	AP	Yasuhiro ITO et al., "Adaptive Weighted Code Division Multiplexing (AW-CDM) Transmission System for Terrestrial Digital Television Broadcasting", ITE Technical Report Vol. 17, No. 13, pp 27-32, February 25, 1993
	AQ	

EXAMINER

Robert Chabal

DATE CONSIDERED

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Mitsuaki OSHIMAFILING DATE
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Re	AA	5,142,353	8-25-92	Kageyama et al.			
Re	AB	5,197,061	3-23-93	Halbert-Lassalle et al.			
Re	AC	5,291,289	3-1-94	Hulyalkar et al.			
Re	AD	5,166,924	11-24-92	Moose			
Re	AE	4,940,954	7-10-90	Aubert et al.			
Re	AF	5,128,758	7-7-92	Azadegan et al.			
Re	AG	5,038,402	8-6-91	Robbins			
Re	AH	5,638,112	6-10-97	Bestler et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
Re	AI	0448492A1	9-25-91	Europe				X
Re	AJ	0485108A2	5-13-92	Europe			X	
Re	AK	0525641A2	2-3-93	Europe			X	
Re	AL	0540231A2	5-5-93	Europe			X	
Re	AM	0531046A2	3-10-93	Europe			X	

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

Re	AN	K. M. Uz et al., Multiresolution Source and Channel Coding for Digital Broadcast of HDTV, 1992, Pages 61-69.						
Re	AO	Nambi Seshadri et al., Multi-Level Block Coded Modulations with Unequal Error Protection for the Rayleigh Fading Channel, Vol. 4, No. 3, May-June 1993, Pages 325-334.						
Re	AP	William F. Schreiber, Spread-Spectrum Television Broadcasting, SMPTE Journal, August 1992, Pages 538-549.						

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Re	AA	5,105,442	4-14-92	Wei			
Re	AB	4,048,572	9-13-77	Dogliotti et al.			
Re	AG	5,282,019	1-25-94	Basile et al.			
Re	AD	5,311,547	5-10-94	Wei			
Re	AE	5,267,021	11-30-93	Ramchandran et al.			
Re	AF	5,038,219	8-6-91	Yamashita et al.			
Re	AG	5,087,975	2-11-92	Citta et al.			
Re	AH	5,086,340	2-4-92	Citta et al.			
Re	AI	5,243,629	9-7-93	Wei			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
Re	AJ	53-137657	12-1-78	JP			X
Re	AK	0282298	9-14-88	Europe			X
Re	AL	0392538	10-17-90	Europe			X
Re	AM	0490552	6-17-92	Europe			X
Re	AN	0506400	9-30-92	Europe			X

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

Re	AO	Khaled Fazel et al., Combined multilevel coding and multiresolution modulation, February 8, 1993, Pages 1081-1085
Re	AP	P. Hoehner et al., Performance of an RCPC-Coded OFDM-based Digital Audio Broadcasting (DAB) System, IEEE Global Telecommunications Conference "Globecom '91", December 2-5, 1991, Vol. 1 of 3, Pages 2.1.1 - 2.1.7
Re	AQ	K. M. Uz et al., Combined multiresolution source coding and modulation for digital broadcast of HDTV*, 1992, Pages 283-292

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Re	AA	4,227,152	10-7-80	Godard et al.			
Re	AB	4,525,846	6-25-85	Bremer et al.			
Re	AC	4,751,478	6-14-88	Yoshida			
Re	AD	4,891,806	1-2-90	Farias et al.			
Re	AE	4,903,125	2-20-90	Parker			
Re	AF	4,937,844	6-26-90	Kao			
Re	AG	5,164,963	11-17-92	Lawrence et al.			
Re	AH	5,555,275	9-1996	Oshima			
Re	AI	5,565,926	10-15-96	Bryan et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
Re	AJ	0311188	4-12-89	EP			X	
Re	AK	0329158	8-23-89	EP			X	
Re	AL	64-5135	1-10-89	JP			X	
Re	AM	63-28145	2-5-88	JP			X	
Re	AN	62-133842	6-17-87	JP			X	

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

Re	AO	Tricia Hill et al., "A Performance Study of NLA 64-State QAM", IEEE Transactions on Communications, vol. COM-31, June 1983, no. 6, pages 821-826.
Re	AP	Hideki Ishio et al., "A Proposal of a Carrier Digital Transmission System Using Multi-Level APSK", pages 1-20.
Re	AQ	Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Re	AA	5,311,550	5-10-94	Fouche et al.			
Re	AB	4,630,287	12-16-86	Armstrong			
Re	AC	4,271,527	6-2-81	Armstrong			
Re	AD	5,050,188	9-17-91	Dirr			
Re	AE	5,398,073	3-14-95	Wei			
Re	AF	5,452,015	9-19-95	Hulyalkar			
Re	AG	5,565,932	10-15-96	Citta et al.			
Re	AH	5,481,412	1-2-96	Bannai et al.			
Re	AI	3,909,721	9-30-75	Bussgang et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
Re	AJ	0365431	4-25-90	EP			
Re	AK	0485105	5-13-92	EP			X
Re	AL	92/14343	8-20-92	WO			X
Re	AM	89/08366	9-8-89	WO			X
Re	AN	0031193	7-1-81	EP			X

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

Re	AO	Shinji Matsumoto et al., "200 Mb/s 16 QAM Digital Radio-Relay System Operating in 4 and 5 GHz Bands", Japan Telecommunications Review, January 1982, vol. 24, no. 1, pages 65-73.
Re	AP	M. Pecot et al., "Compatible Coding of Television Images, Part 2. Compatible System", Signal Processing Image Communication, October 2, 1990, no. 3, pages 259-268.
Re	AQ	Mitsuaki Oshima, "Constellation-Code Division Multiplex for Digital HDTV", IEEE, 1992, pages 1086-1092.

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RL	AA	5,170,413	12-8-92	Hess et al.			
RL	AB	5,600,672	2-4-97	Oshima et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
RL	AC	57-39629	3-4-82	Japan			abstract	
RL	AO	58-161547	9-26-83	Japan			abstract	
RL	AE	63-180222	7-25-88	Japan			abstract	
RL	AF	92/22162	12-10-92	WO			X	
RL	AG	2-94814	4-5-90	Japan			abstract	
RL	AH	61-70861	4-11-86	Japan			abstract	
RL	AI	2-218279	8-30-90	Japan			abstract	
RL	AJ	2,095,435	5-10-92	Canada			X	
RL	AK	91/20137	12-26-91	WO			X	
RL	AL	2-141049	5-30-90	Japan				X
RL	AM	2-195732	8-2-90	Japan			abstract	
RL	AN	5-167633	7-2-93	Japan			abstract	
RL	AO	2-260726	10-23-90	Japan				X
RL	AP	58-161427	9-26-83	Japan			abstract	

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PL	AA	4,636,876	1-13-87	Schwartz			
PL	AB	4,855,692	8-8-89	Kennard et al.			
PL	AC	4,873,701	10-10-89	Tretter			
PL	AD	4,958,360	9-18-90	Sari			
PL	AE	5,115,453	5-19-92	Calderbank et al.			
PL	AF	5,168,509	12-1-92	Nakamura et al.			
PL	AG	6,049,651	4-11-00	Oshima			
PL	AH	6,256,357	7-3-01	Oshima			
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
PL	AJ	0122805	10-24-84	EP			X	
PL	AK	63-180280	7-25-88	JP			abstract	
PL	AL	64-68144	3-14-89	Japan			abstract	
PL	AM	5-218978	8-27-93	Japan				X
PL	AN	3-69295	3-25-91	Japan				X

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

PL	AO	Kazuhiko Nitadori, Synthesis of Multichannel Orthogonal VSB Signals by Quadrature Method, 1976 International Conference on Communications, June 14-16, 1976, Volume 1, Pages 3-25 - 3-29.
PL	AP	Thomas M. Cover, Broadcast Channels, IEEE Transactions on Information Theory, January 1972, Pages 2-14
PL	AQ	"Optimum Weighted PCM for Speech Signals", Sundberg, IEEE Transactions on Communications, Volume COM-26, No. 6, June 1978, Pages 872-881.

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Re	AA	5,063,445	11-5-91	Nishizawa et al.			
Re	AB	5,819,000	10-6-98	Oshima			
Re	AC	5,999,569	12-7-99	Oshima			
Re	AD	5,892,879	4-6-99	Oshima			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
Re	AE	7-99522	4-11-95	Japan			abstract
Re	AF	7-79415	3-20-95	Japan			abstract
Re	AG	5-75568	3-26-93	Japan			abstract
Re	AH	86-07223	12-4-86	WO			X
Re	AI	2 187 611	9-9-87	Great Britain			X
Re	AJ	85/04541	10-10-85	WO			X
Re	AK	04-196822	7-16-92	Japan			abstract
Re	AL	2-166979	6-27-90	Japan			abstract
Re	AM	64-74836	3-20-89	Japan			abstract
Re	AN	53-108215	9-20-78	Japan			abstract

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Re	AO	Martin Vetterli et al., Multiresolution Coding Techniques for Digital Television: A Review, Multidimensional Systems and Signal Processing, Volume 3, May 1992, Pages 161-187.
Re	AP	Ezio Biglieri et al., Introduction to Trellis-Coded Modulation with Applications, April 6, 1992, Pages 173-207.
Re	AQ	English Language Abstract of European Patent No. 93 30 7575

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